

CLAIMS

We claim:

1. A method for determining hydrogen peroxide in body fluid comprising steps of:

emitting light by reaction of immobilized horseradish peroxidase, hydrogen peroxide and imidazoles in alkaline pH; and
measuring intensity of the light.

2. A method for determining hydrogen peroxide in body fluid comprising steps of:

injecting body fluid into a first mobile phase passage;
injecting a solution of imidazoles and an alkaline buffer into a second mobile phase passage; and
mixing the body fluid with the solution of imidazoles and the alkaline buffer in a flow cell where a horseradish peroxidase immobilized stationary is packed to emit light.

3. A device for determining hydrogen peroxide in body fluid comprising:
a first mobile phase passage for body fluid, having a pump for chromatography and an autosampler;
a second mobile phase passage, having a pump for chromatography for a solution of imidazoles and an alkaline buffer;
a flow passage into which the first and second mobile phase passages join; and
a chemiluminometer to which the flow passage connects, said chemiluminometer having a flow cell where a horseradish peroxidase immobilized stationary phase is packed and a photomultiplier in contiguity with a surface of the flow cell.